

TRANSPORTATION RESEARCH BOARD

THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine

83rd Annual Meeting Planner

Ed Christopher - [Edit Profile](#)[Home](#)[Sessions](#)[Presentations](#)[People](#)**A1D08 - Urban Transportation Data and Information Systems****Paper or Conference Sessions****TPS04-19**

Tuesday, January 13, 2004, 1:30pm- 3:15pm, Hilton, Lincoln West

Metadata: Perspectives of Various Transportation Communities

Patricia S. Hu, Oak Ridge National Laboratory, presiding

*Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Spatial Data and Information Science (A5015); Committee on Information Systems and Technology (A5003); Committee on Library and Information Science for Transportation (A5017); Committee on Freight Transportation Data (A1B09); Committee on National Transportation Data Requirements and Programs (A5016); Committee on Statewide Transportation Data and Information Systems (A1D09)***Statewide Transportation Data and Information Systems** (P04-0698)

Anita Vandervalk, Cambridge Systematics, Inc.

Spatial Data and Information Science (P04-0131)

David R Fletcher, GPC Inc.

Information Systems and Technology (P04-0132)

Jeffrey L. Western, Wisconsin Department of Transportation

Library and Information Science for Transportation (P04-0133)

Joyce W Koeneman, Bureau of Transportation Statistics

National Transportation Data Requirements and Programs (P04-0134)

Patricia S. Hu, Oak Ridge National Laboratory

Urban Data and Information Systems (P04-0135)

Ed Christopher, Federal Highway Administration

Freight Transportation Data (P04-0136)

Marcus Ramsay Wigan, Oxford Systematics, Australia

TPS04-20

Monday, January 12, 2004, 8:00am- 9:45am, Hilton, Lincoln West

Commuting in America

Charles L Purvis, Metropolitan Transportation Commission, presiding

*Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)***CTPP Status Report** (P04-0152)

David H. Clawson, American Association of State Highway and Transportation Officials

Commuting to Downtown (P04-0153)

Charles L Purvis, Metropolitan Transportation Commission

Journey to Work in the United States and Its Major Metropolitan Areas (P04-0154)

Nanda Srinivasan, Cambridge Systematics Inc

Journey-to-Work Trends Using the American Community Survey (P04-0155)

Kevin Tierney, Cambridge Systematics Inc

Work and Nonwork Daily Travel (P04-0158)

Nancy McGuckin, Consultant

Commuting in America III (P04-0159)

Alan E. Pisarski, Consultant

TPS04-26

Tuesday, January 13, 2004, 3:45pm- 5:30pm, Hilton, Lincoln West

Emerging Travel Data Collection and Monitoring Techniques

Marsha Anderson Bomar, Street Smarts, presiding

*Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)***Eighty Weeks of Global Positioning System Traces: Approaches to Enriching Trip Information**

(04-4655)

Stefan Schoenfelder, Swiss Federal Institute of Technology Zurich

Kay W Axhausen, Swiss Federal Institute of Technology Zurich

Jean Wolf, GeoStats

Marcelo Gurgel Simas de Oliveira, GeoStats

Examination of Use of APRS Data for Enhancing Transportation Planning Operations (04-3918)

John W Meaker, Texas State University

Mark Horner, Ohio State University

Computer-Assisted Vehicle Reidentification System for Segment Travel Time Derivation (04-5216)

Eric Meyer, University of Kansas

Carlos C. Sun, University of Missouri, Columbia

Transit Buses as Traffic Probes: Empirical Evaluation Using Geolocation Data (04-4230)

Robert L. Bertini, Portland State University

Sutti Tantiyanugulchai, Portland State University

Estimating Travel Times on Urban Corridors Using Bus Travel Time Data (04-3879)

Partha Chakroborty, Indian Institute of Technology, Kanpur

Shinya Kikuchi, University of Delaware

TPS04-27

Tuesday, January 13, 2004, 7:30pm- 9:30pm, Hilton, Military

Travel Time and Performance: From Traffic Sensors to Models

Catherine T Lawson, State University of New York, Albany, presiding

*Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)***Unified Transportation Sensor Data Format for Efficient Archiving and Sharing of Statewide****Transportation Sensor Data** (04-4863)

Taek Mu Kwon, University of Minnesota, Duluth

Nirish Dhruv, University of Minnesota, Duluth

Improving Arterial Link Travel Time Estimation by Data Fusion (04-5174)

Chi Xie, Cornell University

Ruey Long Cheu, National University of Singapore

Der-Horng Lee, National University of Singapore

Investigation of Dynamic Probe Sample Requirements for Traffic Condition Monitoring (04-3673)

Matthew W Green, University of Virginia

Michael D. Fontaine, Virginia Transportation Research Council

Brian Lee Smith, University of Virginia

Travel Time Estimation for Urban Freeway Performance Measurement: Understanding and Improving Upon the Extrapolation od (04-2713)

Brian Lee Smith, University of Virginia

Russell B Holt, University of Virginia

ByungKyu Brian Park, University of Virginia

Using Historical Information in Forecasting Travel Times (04-4542)

Christopher C. Schrader, Princeton University

Alain L Kornhauser, Princeton University

Laura M. Friese, Princeton University

Poster Sessions

TPP04-18

Wednesday, January 14, 2004, 9:30am-12:00pm, Hilton, Exhibit Hall

Analyzing and Presenting Census Data

Robert T Sicko, Mirai Associates, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Transportation Planning Needs and Requirements of Small and Medium-Sized Communities (A1D05)

Some More Tools for Accessing Census 2000 Data (P04-0122)

Howard L Slavin, Caliper Corporation

Bicycle Planning in the City of Portland: Census Data Analysis (P04-0126)

Jennifer Dill, Portland State University

Real Estate Research Using CTPP Data (P04-0127)

Mark P. Donovan, No Organization

Interpretation of Statewide County-to-County Commuter Flow Maps (P04-0125)

Todd Steiss, Parsons Brinckerhoff

Commuting in California: Demographic Characteristics of Nonmotorized Commuters in California: 1990-2000 (P04-0124)

Charles L Purvis, Metropolitan Transportation Commission

Seasonality of Transportation Data (P04-0123)

Emily Parkany, Villanova University

Place-of-Work Extended Allocation Procedure in Census 2000 (P04-0390)

Edward Limoges, Sabre Systems Inc

Workshops

TPW04-17

Sunday, January 11, 2004, 8:30am-12:00pm, Hilton, State

Building Traffic Data Archives from ITS-Collected Data: Overview and Discussion of Current Practices

Shawn M Turner, Texas Transportation Institute, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Information Systems and Technology (A5003)

Participants in this workshop will explore and discuss various steps and procedures that are used in building traffic data archives from ITS-collected data. In the data warehouse literature, these steps and procedures are typically referred to as extraction, transformation and loading (ETL). With archived traffic data, ETL steps could include several of the following: 1) extraction of selected data for inclusion in archive; 2) transformation or reorganization of the selected data to fit the design of the data archive; 3) data quality checking and control steps; 4) data imputation or estimation steps to fill missing gaps of data; and 5) import scripts or protocols that load the selected and transformed data into the target data archive. The format of the workshop will be split between informal presentations and roundtable discussion. The intent of the workshop is to identify common approaches and effective practices for building traffic data archives from ITS-collected data.

What the New ASTM E2259-03 Standard Says About Designing and Building ITS-Generated Data Archives (P04-0119)

Robert M Winick, Motion Maps, LLC

Constructing Statewide Data Archives in California: PeMS Case Study (P04-0120)

Karl Petty, Berkeley Transportation Systems

From Field to Data Warehouse: ETL Process in Virginia ADMS (P04-0675)

Brian L Smith, University of Virginia

Data Quality Control in Mobility Monitoring Program: Cleaning Archived ITS Data from 27 Cities (P04-0143)

Shawn M Turner, Texas Transportation Institute

Published Meetings

TPM04-08

Monday, January 12, 2004, 1:30pm- 5:30pm, Hilton, Caucus

A1D08-Urban Transportation Data and Information Systems

Ed Christopher, Federal Highway Administration, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)

TPM04-22

Monday, January 12, 2004, 12:00pm- 1:30pm, Hilton, Dupont

A1D08(2) - Metadata Subcommittee

Marcus Ramsay Wigan, Oxford Systematics, Australia, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)

TPM04-23

Wednesday, January 14, 2004, 2:30pm- 4:00pm, Hilton, International Center D

A1D08(1) - Census for Transportation Planning Subcommittee

Robert T Sicko, Mirai Associates, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems (A1D08)

A1D08 Cosponsored Sessions (only editable by the primary committee sponsor)**TPP04-23**

Tuesday, January 13, 2004, 2:30pm- 5:00pm, Hilton, Exhibit Hall

Applications Using ITS Data Archives

Brian L Smith, University of Virginia, presiding

Sponsored by Committee on Artificial Intelligence (A5008); Committee on Information Systems and Technology (A5003); Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Statewide Transportation Data and Information Systems (A1D09)

Genetic Algorithm-Based Approach to Traffic Microsimulation Calibration Using ITS Data (04-5036)

Kyu-Ok Kim, Korea Transport Institute

Laurence R Rilett, Texas A&M University System

Double-Sides Optimization of Aggregation Level for ITS Data (04-3822)

Fengxiang Qiao, Texas Southern University

Xin Wang, Texas Southern University

Lei Yu, Texas Southern University

Genetically Designed Models for Accurate Imputations of Missing Traffic Counts (04-4001)

Ming Zhong, University of Regina, Canada

Satish C Sharma, University of Regina, Canada

Pawan Lingras, St. Mary's University, Canada

Identifying Nearest Neighbors in Large-Scale Incident Data Archive (04-3781)

Yi Qi, University of Virginia

Brian Lee Smith, University of Virginia

TPP04-32

Wednesday, January 14, 2004, 9:30am-12:00pm, Shoreham, Blue Room Foyer

Data Needs for Freight and Intermodal Planning

Sponsored by Committee on Statewide Transportation Data and Information Systems (A1D09); Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Freight Transportation Data (A1B09)

Freight Data Needs Assessment for the Metropolitan Region (P04-0462)

Scott Drumm, Port of Portland

Dike Ahanotu, Cambridge Systematics Inc

ITMS Freight Module Development and Related Data Problems (P04-0463)

Linda Turnquist, California Department of Transportation

Freight Data Lessons Learned from Truck Model Development in the Baltimore Region (P04-0533)

Paul Agnello, Baltimore Metropolitan Council

Jocelyn Jones, Baltimore Metropolitan Council

Freight Data Needs for Central Ontario (P04-0534)

Julius Gorys, Ontario Ministry of Transportation, Canada

Michael J. Fischer, Cambridge Systematics, Inc.

GeoFreight System: Intermodal Freight Planning Tool (P04-0535)

Shih-Miao Chin, Oak Ridge National Laboratory

Ho-Ling Hwang, Oak Ridge National Laboratory

Felix Ammah-Tagoe, Bureau of Transportation Statistics

Using Freight Data to Evaluate Kentucky's Commercial Vehicle Monitoring Station System (P04-0536)

Scott Walker, Wilbur Smith Associates

Niels Robert Bostrom, Kentucky Transportation Cabinet

Market Research Survey of Potential Demand for Air Package Express Service Using Rapid Transit in Downtown Chicago (P04-0537)

David O Nelson, KKO & Associates LLC

TPW04-02

Sunday, January 11, 2004, 2:00pm- 5:30pm, Hilton, Jefferson West

A Data Bonanza Workshop on National Data User Guides and Tools

Nancy McGuckin, Consultant, presiding

Sponsored by Committee on Travel Survey Methods (A1D10); Committee on Statewide Transportation Data and Information Systems (A1D09); Committee on Urban Transportation Data and Information Systems (A1D08); Committee on Transportation Planning Needs and Requirements of Small and Medium-Sized Communities (A1D05); Committee on National Transportation Data Requirements and Programs (A5016)

The purpose of the workshop is to introduce and demonstrate the web-based and CD-based guides and data tools available to researchers and users of national data. Since most of the attendees will be somewhat familiar with the data (NHTS, CTPP, and TRANSTATS), each instructor will start with a short description of the data structure and documentation, and then demonstrate a few case studies. Each presentation should be 20 minutes or less. After these short introductory presentations, the attendees will have the opportunity to break out into smaller work groups. This workshop will focus on national data and tools, for example: National Household Travel Survey web-based table generator, American Fact Finder (Customized Census data queries); TRANSTATS web-based Table generator; and NHTS for travel demand forecasting data analysis tool (transferable data project).

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